LITHOLOGIC LOG

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LOCATION MAP:	1
WELL ROAD	-
PL-2-504 BLM-17-493	NORTH NTS
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NE 1/4 NE 1/4 NW 1/4 NE 1/4 S 5 T 21S R 3E

SITE ID: NASA-WSTF LOCATION ID: PL-2-504

SITE COORDINATES (ft.):

N 227742.47 E 401193.52

GROUND ELEVATION (ft. MSL): 4508.04 (BRASS CAP)

STATE: NEW MEXICO COUNTY: DOÑA ANA

DRILLING METHOD: MUD/AIR-FOAM ROTARY

DRILLING CONTR.: LARJON

DATE STARTED: 22 SEPT. 88 DATE COMPLETED: 28 NOV. 88

FIELD REP.: P. S. EGAN

COMMENTS: 9 7/8" pilot hole reamed to 16" with mud rotary,
0-100'. 9 7/8" bit with air foam, 100'-532', Total Depth (TD) =

LOCATION DESCRIPTION: 532". Bedrock not reached. Borehole drift = 29".

		1	53Z , Bedr	rock not reached.	Borehole drift = 29'.
Depth	Visual % Lith	Drilling Time Scale: min	Sample Type and Interval		Lithologic Description
5	<u> </u>	68	0'-532'(TD) cuttings	0'-5'	Surficial Caliche: Grayish pink (5R 8/2) to yellowish gray (5Y 8/1). Small amount of caliche in cuttings but surface of well pad exhibits chalky dust and large clasts of caliche. Extremely long drilling time for first 5'.
10	####VVV::://	19		5'-532'	Gravelly Alluvium (Santa Fe Group): Dusky yellowish brown (10Y 2/2) to moderate yellowish brown (10YR 5/4) when clay content is high.
15		12			Cuttings range in size from less than .1 to .8 inches, are angular to subrounded and poorly sorted. Natural grains are up to .2 inches in size, are subangular to rounded
20		13			and poorly-sorted. The alluvium is unconsolidated in the upper portion but consolidated to semi-consolidated in the lower portions (variations in drilling time). The
25	<u>+ + + + ∨ ∨ ∨ · · : ■</u>	24			lithology is an unconsolidated to consolidated, gravelly to boulder (longer drill times, bit behavior), polygenetic conglomerate. Cutting
30	AH HH VIVIVI : : I	41	-		lithologies are grayish black (N2) to medium light gray (N6) micritic limestone with occasional calcitefilled fractures less than .1 to .2 inches thick, white (N9) to
35	+++++WVW:Z	17			moderate red (5R 5/4) rhyolite which frequently exhibits oxidation rims around phenocrysts of magnetic or pyrite, dusky red (5R 3/4) to grayish olive (10Y 4/2) siltstone, moderate red (5R 4/6) granite,
40	#####	57			light gray (N7) to translucent quartz and quartzite, medium gray (N5) and grayish purple (5P 4/2) porphyritic andesite containing euhedral to subhedral phenocrysts
45	=====4+4 V	42			of white plagioclase, frequently altered to moderate yellow green (5GY 7/4) epidote, and minor amounts of sandstone and caliche.
50		30			Thick clay layers occur throughout the upper section of the alluvium. Caliche is present as hard pan at the surface and lesser amounts as thin lenses or coatings on clasts throughout the section.
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LOCA	TION ID: PL-2-504			Page <u>8</u> of <u>9</u>
Dept	h Visual X Lith	Drilling Time Scale: min	Sample Type and Interval	Lithologic Description
440	VVVV++++ :2	4		
445	VVVV++++-/V	4		`
450	VVVV111+15V	3		-
455		6		
460	VVVV4444372	5		
465		9		
470	VVVVV4442	7		
475	VVVV++++:Z	8		
480	VVVVV+++-Z	8		
485	<u> </u>	18		
490	VVVVV4++:://	14		
495	VIVVVIIII:Z	12		
500	<u> </u>	15		
505	VV VV VV + 1:77	10		

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